



# The Grapevine

## Newsletter



Volume 8:01

For Cultural Resources Management

January 1998

### Table of Contents

|                           |    |
|---------------------------|----|
| Conference Calendar ..... | 2  |
| Call for Papers .....     | 3  |
| Job Announcements .....   | 7  |
| Advertisements .....      | 10 |

### In This Issue..

☞ **Emergency Response and Salvage Wheel Now Available - Page 4**

☞ **Using Geographical Information Systems for Archaeological Research- By Thad Tilton - Page 5**

☞ **New Releases - Page 8**

## State News

### Alabama

#### New State Archaeologist

The position of State Archaeologist has been filled by Dr. Tom Maher. Maher began his new position in September. His duties at the Alabama Historical Commission include Section 106 compliance and review, monitoring and helping to define historic preservation trust fund grants, and creating public awareness and education programs on archaeology.

[Taken from *Preservation Report: Alabama Historical Commission*: November 1997.]

#### Birmingham Bound

*Birmingham Bound: An Atlas of The South's Premier Industrial Region, 1850s to the Present*, released in early November, offers photographic documentation of the Birmingham area's prominent industrial sites that have transformed and continue to shape the geography of the area. The volume costs \$23.60 and is available through the Birmingham Historical Society, One Sloss Quarters, Birmingham, AL 35222; voice 205-251-1880 (shipping and handling included).

## Announcement From the Editors

*The Grapevine* is changing to a bimonthly publication schedule. Since its inception seven years ago, *The Grapevine Newsletter*, continues to be the monthly newsletter of the CRM industry. We are proud of this tradition and of *The Grapevine's* reputation for bringing its readers quality information. The switch to a bimonthly schedule will allow us the time to develop new columns, contributing editors, and feature articles. We think you will find that this change will improve the quality of the newsletter's information. As always, we look forward to your input, so please let us know how we are doing.

## Conference Calendar

**January 24, 1998 - The 1998 meeting of Kentucky Organization of Professional Archaeologists** will be held at University of Kentucky Student Center in Lexington: Contact Dick Jefferies 606-257-2860 or E-mail: ANT392@ukcc.edu.

**February 9-12, 1998 - The National Conference On Cultural Property Protection** will meet in Washington D.C. Contact: Tom Bresson, Smithsonian Institution, 202-357-3378 or Roger Wulff, Exposition Manager, 202-462-6176.

**March 5-7, 1998 - Visualizing History for the Public 1998 Landmarks Conference in American History**, will be held in Washington, D.C. Contact: David G. Vanderstel, Executive Director, National Council on Public History.

**March 12-15, 1998 - Northeastern Anthropological Association Annual Meeting** will be held in Orono, ME. Contact David Sanger, Department of Anthropology, University of Maine, Orono, ME 04469; 207-581-1897; E-mail: sanger@maine.maine.edu.

**March 21-22, 1998 - 16th Annual Symposium on Ohio Valley Urban and Historic Archaeology** will be held at Riverside, the Farnsley-Moreman Landing, a historic site in Louisville, KY. Contact: Trina Maples, 215 Ridgeway Rd. #7, Lexington, KY 40502; 606-252-4737.

**March 25-31, 1998 - the 63rd Annual Meeting of the Society for American Archaeology** will be held in Seattle, WA. Contact: the Society for American Archaeology at 900 Second Street, N.E., #12, Washington, DC 20002-3557, telephone 202-789-8200; FAX 202-789-0284; or E-mail: meetings@saa.org.

**April 2-5, 1998 - Organization of American Historian Annual Meeting** will be held in Indianapolis, IN. Contact: OAH, 112 N. Bryan Street, Bloomington, IN 47408-4199; 812-855-9853; <http://www.indiana.edu/~oah>.

**April 16-18, 1998 - The 51st Northwest Anthropological Conference** will be held in Missoula, MT. Contact: Northwest Anthropological Conference, Dr. Thomas A. Foor, Chair Department of Anthropology, The University of Montana, Missoula, MT 59812.

**April 17-18, 1998 - Fleeting Identities: Perishable Material Culture in Archaeological Research**, the Fifteenth Annual Center for Archaeological Investigations Visiting Scholar's Conference, will be held at Southern Illinois University-Carbondale. For details see <http://www.siu.edu/~cai>, or contact Penelope Drooker, CAI, Faner 3479, Mailcode 4527, SIUC, Carbondale, IL 62901-4527; 618-453-5032; FAX 618-453-3253; E-mail: pdrooker@siu.edu.

**May 17-22, 1998 - Food in History and Culture Workshop** will be held in Cambridge, MA. Theme: Spanish Cuisine: Perspectives from Anthropology and History. Contact: Radcliffe Seminars, Christina Bortz, Cronkhite Graduate Center, 6 Ash Street, Cambridge, MA 02138; 617-495-8600; FAX 617-496-0363; E-mail: seminars@radcliffe.edu

**October 14-17, 1998 - The Plains Conference** will meet at the Radisson In at Bismark, ND. The conference is co-hosted by the State Historical Society of North Dakota and the University of North Dakota.

## Call For Papers

### American Society for Environmental History

The American Society for Environmental History announces the call for papers for its biennial meeting to be held in Tucson, Arizona, April 14-18, 1999. The theme will be "Environmental History across Boundaries." Proposals should be postmarked by July 15, 1998. For details, contact Edmund Russell (program chair), Technology, Culture, and Communication, SEAS, Thornton Hall A-237, University of Virginia, Charlottesville, VA 22903 (epr5d@virginia.edu, 804-982-2623).

### The Second Wave: Southern Industrialization, 1940-1970

A conference at the Georgia Institute of Technology,  
June 5-6, 1998

Georgia Tech's School of History, Technology, and Society invites paper proposals for a conference focused on the second

wave of southern industrialization that was spurred by World War Two era spending and developed broadly in the postwar decades through federal and private sector regional investments. Key "New South" manufacturing sectors (textiles, steel, tobacco) had experienced slowed growth or stagnation in the interwar decades. Then, war demands and peacetime opportunities triggered a fresh round of infrastructure, military, and industrial investments which gradually reshaped the landscape of production from the Carolinas to Texas, while transforming the construction, finance and service segments of the southern economy.

We welcome proposals from historians, sociologists, geographers, urban or rural studies researchers, and public policy analysts which examine this broad regional dynamic - at the level of the firm, the sector, the urban/rural district, or in statewide or regional terms. Travel and local expenses for presenters will be reimbursed, thanks to a University System of Georgia grant. Proposals should be limited to one page, accompanied by a short vita (two page maximum). As we will seek university press publication for a set of the conference papers, essays already published or in press should not be

submitted for consideration. Due date for receipt of proposals - March 1, 1998; Notification date - March 16, 1998. Mail, email, or fax submissions will be accepted.

Mail address: Prof. Philip Scranton, HTS—Georgia Tech, Atlanta, GA 30332-0345; Fax: 404-894-0535; Voice: 404-894-7765; E-mail: philip.scranton@hts.gatech.edu (no attached files, please)

Due date for receipt of completed papers (for commentators and website posting) - May 10, 1998.

### The 6th Ohio Archaeological Council Conference on the Archaeology of History in the Ohio Region

October 9-10, 1998

Ramada Hotel & Conference Center  
2429 S. Reynolds Road, Toledo,  
Ohio

The 1998 Ohio Archaeological Council Conference will focus on the archaeologist's contribution in uncovering and interpreting the history of the Ohio region. In anticipation

..continued on Page 4

*The Grapevine* is published monthly by Gray & Pape, Inc.

Managing Editor: W. Kevin Pape

Newsletter Editor: E. Jeanne Harris

Copy Editor: Lora L. Anderson

Editorial address:

*The Grapevine*

1318 Main Street

Cincinnati, OH 45210

Telephone 513-287-7700

FAX 513-287-7703

E-mail: Ejharris@aol.com or

Gray\_Pape@compuserve.com

## Call for Papers..

*..continued from Page 3*

of publication of the conference proceedings, papers are invited to address the following topics:

**The Dawn of History** (Protohistoric and Historic Indian sites and issues)

**The Archaeology of Human Conflict** (Military & Battlefield Archaeology)

**Building a Nation** (Rural & Urban Archaeology)

**The Industrial Heartland** (Industrial & Commercial Archaeology)

**Archaeology of the 20th Century** (Applied & Forensic Archaeology)

**Method and Theory in Historic Archaeology**

The Friday night banquet will feature a keynote address by Dr. Douglas D. Scott, National Park Service, regarding his archaeological and forensic investigations of the Little Bighorn Battlefield.

Paper proposals of a minimum of 600 words (accompanied by an electronic version: windows format, MS Word preferred) should be submitted by March 1, 1998:

G. Michael Pratt  
OAC Conference Coordinator  
Laboratory of Archaeology,  
Heidelberg College  
310 E. Market Street  
Tiffin, OH 44883  
mpratt@mail.heidelberg.edu.

Selection of the conference participants (and alternates) will be made by March 31, 1998, based on

adherence to conference theme and topics, scholarly content, original research, and ability to synthesize data. Papers selected as alternates will be included in the publication. A draft version of the completed conference paper must be submitted in print and in electronic format by July 31, 1998. Authors who fail to submit a draft paper by the July 31 deadline will be removed from the tentative program and be replaced by alternates.

Registration materials will be available August 1, 1998.

The Ohio Archaeological Council is a private, non-profit membership organization registered with the State of Ohio since 1975 as a charitable scientific and educational corporation promoting the advancement of archaeology in Ohio.

## Emergency Response and Salvage Wheel

Water damage is the most common threat to collections. In support of preservation efforts in the nation's cultural institutions, The National Task Force on Emergency Response has received funding for an innovative educational tool, the Emergency Response and Salvage Wheel©. The wheel is an interactive slide chart designed to provide the staff at cultural institutions with quick access to essential information on protecting and salvaging collection. The information has been developed and reviewed by preservation and conservation professionals, and endorsed by the Federal Emergency Management Agency (FEMA) and seven other federal agencies and national organizations.

The wheel will help you safeguard collections damaged by water, whether from flooding, fire, earthquakes, or severe storms. Use it in the first 48 hours of an emergency when salvage measures are most critical. Emergency Response Action Steps are listed in nine sections on Side I. General salvage information and recovery tips for specific kinds of collections are on Side 2.

Major funding for the wheel has been provided by the National Endowments for the Humanities. Additional support has been received from The St. Paul Companies, Inc., and an anonymous foundation. Due to these generous contributions, nearly 45,000 libraries, museum, archives, and historical organizations and sites nationwide have received the wheel free of charge. Now you have the opportunity to order the wheel at a cost of \$9.45 (\$8.45 each for 10 or more).

For more information or to order the Emergency Response and Salvage Wheel© contact:

National Institute for the Conservation of Cultural Properties  
For the National Task Force on Emergency Response  
3299 K Street, NW, Suite 602  
Washington, DC 20007-4415  
888-979-2233  
FAX: 202-625-1485

# Tools of the Trade

Contributing Editor - Tim King

## Using Geographical Information Systems for Archaeological Research

By Thad Tilton

GIS, geographical information systems has become an important tool for performing spatial analysis in a variety of academic disciplines and private sector contexts. Just as spreadsheets and word processors revolutionized the management and presentation of information, GIS has revolutionized the analysis of spatial data. Tasks that were once thought impossible, or were so time-consuming and monotonous to be of no practical use, are now routine in a GIS. Just a few of the several advantages of using GIS are: practical management of spatial and tabular (attribute) data within a single database, easy viewing of the spatial component of data in a variety of ways, automation of routine tasks, and readily available digital data that is either free or very inexpensive.

The use of GIS for the management and analysis of spatial data is becoming standard within agencies such as the Forest Service and the Bureau of Land Management. Examples of applications of GIS in these agencies include vegetation classification, evaluation of the risk of fire, and delineation of areas most susceptible to vandalism. Because GIS works with several layers of data, it can solve complex spatial problems such as these, where the interrelatedness of many factors may contribute more to the solution than any single factor itself. Although GIS appears well suited for archaeological applications, its potential has yet to be realized. Indeed, many within cultural resource management are still content to draw sites on a 7.5" topo sheet and keep the

associated site records across the office in a file cabinet. To them, a GIS consists of a photocopier, scissors, and a set of colored pencils. For a few of us, however, GIS is opening up a new world of possibilities.

Quite a few archaeologists fear the use of computers, many, I believe, for good reason. I remember being told by several archaeologists that GIS would never work in archaeology because ... it is impossible to model or predict human behavior in a computer'. While this is true in a general sense, it is a gross generalization of the use of GIS in archaeology. Several studies have indeed been carried out to predict where human activity was likely to have taken place based on archaeological and environmental data in a GIS, and have been fairly successful. This is descriptive research, however, revealing only the environments that have a better likelihood of containing archaeological sites, not explaining why the sites are there. Predictive models of archaeological site location should not be used in lieu of survey. Instead, they can be used to aid in the design of sampling strategies and to make more efficient use of limited time and money in the fieldwork budget.

To explain the archaeological distribution of sites, the archaeologist must still rely on theory. Aside from the predictive application of

GIS, however, there are several other archaeological applications for which this technology is practical.

Maintaining a database of archaeological site records is much more convenient in a GIS for several reasons. For one, spatial and tabular (attribute) data are stored together. A point on your map has the capability to be linked to an unlimited number of records. By clicking on that point, you can retrieve tables, reports, and even digitized site or artifact photos. By maintaining your database in this manner, you also can easily update and retrieve of archaeological data easily. Finding every site within your study area that was recorded as a hunting camp with a Shoshone component above 1250 meters and within 30 meters of permanent water,' for example, would be routine.

Considering the bulk of recorded archaeological site data alone, using GIS for data management becomes an attractive alternative to bookshelf after bookshelf of three-ring binders and stacks of tattered maps. Indeed, all recorded archaeological data for the entire United States could be consolidated on a single (albeit large) GIS. Imagine the convenience of performing a record search over the modem lines from the home or office. After logging onto a clearinghouse website and entering a password, you delineate your study area on a digital map with your mouse. The computer on the other end searches the GIS database, and within minutes you are provided with the data you require - complete site records and a bibliography of survey reports for your project. Ten years ago, this would have been science fiction. Today, however, this technology is available, and is already in use for similar applications.

Combined with readily available

...continued on Page 6

environmental data layers, environmental characteristics that may have been lacking on original site records are easily obtained. With a digital elevation model (DEM), for example, you can approximate characteristics like elevation, slope, aspect, and amount of relief for any given site. Given a hydrology coverage, you can estimate the distance to the nearest water, and so on. Additionally, with adequate knowledge of a given region's paleoclimate, prehistoric environments can even be recreated in a GIS.

Relocating previous sites and navigating in the field can also be made much simpler with the use of GIS and global positioning systems (GPS) technology. With today's powerful laptop computers, a GIS can be taken anywhere. Likewise, GPS with the ability to give geographic locations to within a few meters accuracy are portable and relatively inexpensive. Using GPS, your exact location in the field can be tracked as a blip on a digital map. Instructions for navigating to a specific site can be output in English, or the optimal route displayed on your computer screen. Aerial photographs or hard-copy topographic maps of your study area can also be scanned in and geo-rectified to serve as a base map. Site locations recorded this way are much more accurate and do not require visible landmarks as penciling sites on a map does.

GIS, at the very least, is a powerful cartographic tool. Even today's least expensive GIS software makes it easy to produce accurate and aesthetically pleasing maps. Digital aerial photography or rasterized quad maps can be used as base maps over which sites and survey boundaries can be drawn. Scale bars, north arrows, and even map legends can be automatically generated by GIS software.

Computers, like a trowel or a pick, are a tool. All have their proper

use in archaeology. Just as one must know when to use a trowel and when to use a pick, so must the archaeologist decide for him/herself when and to what extent to use GIS.

*Thad Tilton is currently finishing a Master of Science degree in geography at Utah State University. His thesis research was the production of a GIS predictive model for locating areas likely to contain archaeological sites in the west*

*desert of Utah. He earned his B.A. degree in anthropology from San Diego State University, and has worked on several CRM projects in Utah and California.*

*He may be contacted at:*

*Dept of Geography  
Utah State University  
Logan UT 84322-5240  
435-797-4485  
ttilton@geog.usu.edu*

## Cultural Resource Specialist

Natural Resource Group, Inc., is a Minneapolis-based environmental consulting firm specializing in regulatory compliance issues for the energy and utility industries. We are a growing company and take pride in our unequalled level of service to our clients. Currently, we are seeking a qualified individual to provide oversight for our cultural resource services.

As a resource specialist, you will manage the cultural resource services on large-scale pipeline corridor projects, including managing the subconsultants that are providing the field services and serving as a NEPA environmental team member. You should hold a M.A. in anthropology or equivalent, and have 5 to 10 years professional experience in managing cultural resource services on large-scale projects. Specifically, you should have working knowledge of the Section 106 process; the ability to develop cultural resource survey design; experience managing subconsultants and reviewing survey reports; and working knowledge of NEPA-related environmental rules, regulatory processes, and agencies. We would consider it a plus if you have experience with environmental aspects of pipeline or corridor construction. Furthermore, you should possess excellent written and oral communication skills and be highly organized.

We offer our employees a stimulating and positive work environment, a highly competitive compensation package, and excellent benefits. If you are interested in this position, please submit your resume to:

Lynda Holo  
Natural Resource Group, Inc.  
1800 International Centre  
900 Second Avenue South  
Minneapolis, MN 55402  
E-mail: llholo@nrginc.com

EOE

## Job Announcements

### Research Assistant

The Civil War Trust, a private non-profit organization in Arlington, Virginia, is searching for a research assistant for a temporary project. We are working with The History Channel and a software developer to create a Civil War CD-ROM for commercial sale with proceeds to benefit battlefield preservation. Over the next few months we will need an assistant to locate appropriate photos, maps, music, and audio resources to be used on the CD. There will also be some writing required and possibly some travel. A basic knowledge of Civil War history is necessary.

The position pays \$10 to \$15 per hour and would be perfect for a graduate student in public history or museum studies.

Contact: Julie Fix at: [jfix@civilwar.org](mailto:jfix@civilwar.org) for more information or send a resume and writing sample to:

The Civil War Trust  
2101 Wilson Blvd., Suite 1120  
Arlington, VA 22201

### Environmental Quality Specialist II (Historic Properties Specialist)

Opens: 12/16/97

Closes: 1/30/98

Salary: \$2336 - 3011 per month

Work Location: Austin, Texas

Under general supervision, The Environmental Quality Specialist II identifies and analyzes impacts of transportation projects on historic properties. The job involves reviewing proposed transportation projects for compliance with federal and state preservation laws and regulations; conducting identification, research, and evaluation efforts of historic

properties located with the area of potential effects of proposed transportation activities; driving to project locations to perform on-site historic property surveys; coordinating proposed transportation activities with regulatory agencies for compliance with Section 106 of the National Historic Preservation Act; assisting departmental efforts to develop and monitor consultant contracts for historic property identification, research, and documentation work; providing Texas Department of Transportation district offices with technical expertise and guidance concerning regulatory requirements and coordination needed for historic properties; and assisting with development and implementation of cultural resources training program for departmental employees. Work requires extensive contact with governmental agencies and the public. Work requires travel.

Minimum requirements are: a Bachelor's degree in architectural history, historic preservation, history, architectural studies, art, art history, American studies, public history or urban planning, with coursework in American architectural history, plus two (2) years progressively responsible experience performing research, writing, publication, and/or regulatory compliance work for historic properties. A Master's or higher level degree in above fields can substitute for the two year professional experience requirement.

The above job description does not include all of the qualifications, such as the knowledge, skills and abilities, required for the position. A complete job posting (#7 57 N662 043) and application form can be obtained from Texas Department of Transportation 512-416-2994. The job posting and application form (with instructions) can also be downloaded from the Texas Department of Transportation's web page at <http://www.dot.state.tx.us>. For additional information, contact Barbara Stocklin at 512-416-2628; E-mail:

[Bstockli@mailgw.dot.state.tx.us](mailto:Bstockli@mailgw.dot.state.tx.us).

The Texas Department of Transportation is an equal opportunity/affirmative action employer.

### Librarian II/ Archivist

The Grand Rapids Public Library has an opening for this full-time position in professional archival work. Responsibilities include organizing and overseeing the indexing of historical collections; processing of library manuscript holdings and historic photographs; and the repair, clean-ing, deacidification, and encapsulation of historic documents. Candidates must be able to use computers for word processing, creating databases, digital imaging, and indexing. strong communication skills and public programming experience also is required.

Qualifications include an ALA/MLS with specialization in archives, and two years experience in archives, or an equivalent combination of training and experience; understanding of Federal regulations regarding historic preservation and historical landmark registry requirements; and knowledge of archival principles and resources. Supervisory experience is preferred.

Salary range is \$36,638 to \$46,069. Excellent benefit package; evening and weekend work required. Apply in writing providing an updated resume with relevant information regarding your qualifications and experience by January 31, 1998, to:

Grand Rapids Public Library  
ATTN: Business Office  
60 Library Plaza NE  
Grand Rapids MI 49503

Affirmative Action/Equal Opportunity Employer

Visit their webpage:  
<http://www.grapids.lib.mi.us/>

**Jobs..***..continued from page 7***Historic Preservation Specialist  
Position Opening**

Cultural Heritage Research Services, Inc. (CHRS), of North Wales, Pennsylvania has an opening in its Historic Preservation Division for an entry level Preservation Specialist. CHRS is a historic preservation, archaeology, and historical research consulting firm involved in cultural resource management projects throughout the Mid-Atlantic.

Candidates for the position should have experience conducting historic resource surveys, writing architectural descriptions, and assessing significance according to National Register criteria. Knowledge of Mid-Atlantic architectural history/cultural trends, vernacular architecture, the Section 106 process, and historic research methods are also required.

Documentation skills (35mm photography, sketch-level site plans drawings) and familiarity with Windows and Microsoft Word are desired. The ideal candidate would have strong technical writing skills, a willingness to learn, and the ability to work independently as well as part of a team.

This is a full-time position that will involve a substantial amount of fieldwork. Applicants should have a car and be willing to travel, predominantly throughout Pennsylvania, Maryland, New Jersey and West Virginia. CHRS offers a full benefits package, including sick days, vacations, health care coverage, and a retirement plan. Interested applicants should send/fax resumes and writing samples (preferably an architectural description). Salary is commensurate with experience. We anticipate filling the position by March 1, 1998.

For information contact:

Wanda C. Parrish  
Cultural Heritage Research Services  
403 E. Walnut Street  
North Wales, PA 19454  
FAX: 215-699-8901

**New Releases****Discover Our Shared Heritage**

The National Park Service and the National Conference of State Historic Preservation Officers have joined together in a project called "Discover Our Shared Heritage." With financial support from American Express, this program has produced four attractive self-guided tours: *Southern and West Texas*, the *Georgia-Florida Coast*, the *American Southwest*, and the *Early History of the California Coast*. In the works are self-guided tours of Puerto Rico and the United States Virgin Islands.

Unfolded, each colorful map-guide measures about 28 inches square. Each has a map that outlines the area and provides a key to photos and descriptions of historic, archaeological, and natural resources one can visit in the area. The National Register of Historic Places is distributing these guides to state historic preservation officers (SHPO) within each study area. SHPOs may choose to sell or give away these guides. For a list of places from which to obtain these self-guiding tours, contact the National Register of Historic Places, National Park Service, 1849 C Street, N.W., N.C. 400, Washington, DC 20240.

**New CD ROM****"Excavating Occaneech Town"**

A new CD Rom "Excavating Occaneech Town: Archaeology of an Eighteenth-Century Indian Village in North Carolina" is now for sale. Based on a real excavation, this program lets the user plan the course of the excavation and among other tasks requires the user to make budget decisions. The cost is \$39.95. For further information contact: The University of North Carolina Press, PO Box 2288, Chapel Hill, NC 27515-2288; Voice 1-800-848-6224; FAX 1-800-272-6817; or Internet: <http://sunsite.unc.edu/uncpress>.

## *The Grapevine* Subscription Information

**Corporate Rates:**

\$30.00 Each corporate subscription is entitled to be included in the newsletter's quarterly corporate listing for one year. This corporate listing, giving address, phone number, and contact person, will be printed at the back of these issues. New corporate subscriptions will be listed each month.

**Additional Office Rate:**

\$10.00 Corporate subscribers with more than one office can have the newsletter sent directly to regional or branch offices for \$10.00 per additional office.

**Individual Rates:**

\$20.00 An individual subscription includes one free monthly classified ad per year (request for information, special services, job announcement, or position wanted).

**Academic/Governmental Rates:**

\$15.00 This newsletter is designed for private sector contractors. However, our colleagues from academic and governmental sectors are welcome to subscribe and to contribute information.

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_ E-mail: \_\_\_\_\_

Contact: \_\_\_\_\_

Type of Subscription: \_\_\_\_\_

Amount: \$ \_\_\_\_\_

Type of Advertisement: \_\_\_\_\_

Amount: \$ \_\_\_\_\_

Total Amount Enclosed: \$ \_\_\_\_\_

**CLASSIFIED ADVERTISEMENTS:**

| Ad Size  | Per Month | Per Year |
|--|-----------|----------|
| 1/2 page - horiz. 7" x 4 3/4"<br>vert. 9 5/8" x 3 3/8" | \$30.00   | \$225.00 |
| 1/3 page - horiz. 7" x 3 3/8"<br>vert. 3 3/8" x 6 3/8" | \$ 20.00  | \$150.00 |
| 1/4 page - 3 3/8" x 4 3/4"                             | \$15.00   | \$115.00 |
| 1/6 page - 3 3/8" x 3 1/4"                             | \$10.00   | \$ 75.00 |

Ads received by the 10th of the month will appear in that month's issue.

Make checks payable to:  
Gray & Pape, Inc.

**Mailing Address:**

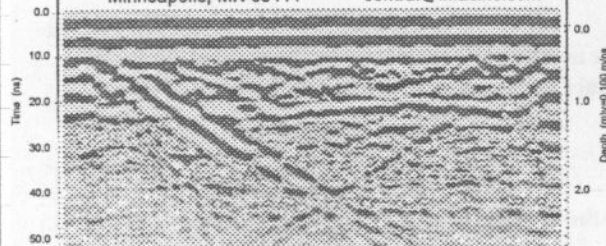
The Grapevine  
Gray & Pape, Inc.  
1318 Main Street  
Cincinnati, OH 45210  
513-287-7700  
FAX 513-287-7703

# IMAC

Discovering the Past  
Managing the Present  
Planning for the Future

IMA Consulting, Incorporated  
2635 4<sup>th</sup> Street SE  
Minneapolis, MN 55414

Tel: 612 379-8364  
Fax: 612 379-8439  
central@imacinc.com



Ground Penetrating Radar Image of an Oneota Pit  
Feature at a Center Frequency of 225 MHz

## Geophysical Survey

IMA Consulting, Inc., with offices in Minneapolis, MN, Bismarck ND, and Fairview, IL offers a full array of geophysical survey services. With five years of experience at a variety of historic and prehistoric sites in eleven states and five countries, the IMAC geophysical survey team can deliver accurate assessments to guide excavation and resource management. Equipped with Geoscan FM 36 gradiometer and RM 15 resistivity meter instruments and a pulseEKKO 1000 ground penetrating radar unit, IMAC uses several software packages to process and visualize survey results to produce high resolution graphics with site coordinates and supporting interpretations.

## Archaeological Equipment for Sale or Rent

Do you do archaeology in any of these places?

Alabama, Alaska, Arizona, California, Colorado, Delaware, District of Columbia, Florida, Georgia, Guam, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Minnesota, Montana, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, Texas, Utah, Virginia, Washington, West Virginia, Wyoming, Canada, Sri Lanka, or Panama.

For over sixteen years, archaeologists in these places has used my plastic drum flotation devices to recover the most from their sites. These durable, portable lightweight devices process large samples quickly and completely. They come ready to hook up to a garden hose. Now the choice of archaeologists from coast to coast, they are only \$375.00 complete. If you want to get more out of your sites, call write or FAX for more information.

**William Sandy**

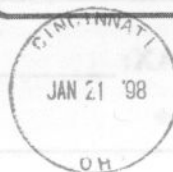
**115 Route 519**

**Newton, NJ 07860**

**Voice 201-383-9491**

**FAX 201-383-9377**

**The Grapevine**  
**1318 Main Street**  
**Cincinnati, OH 45210**



**Michael Polk**  
**Sagebrush Archaeological Consultants**  
**3670 Quincy Avenue, Suite 203**  
**Ogden, UT 84403**

